Blakely, Sokoloff, Taylor & Zafman LLP (310) 207-3800 Title: POWER SAVINGS IN A VOLTAGE SUPPLY CONTROLLED ACCORDING TO A WORK

CAPABILITY OPERATING MODE OF AN INTEGRATED CIRCUIT

1st Named Inventor: Helen H. Ruan

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APPLY POWER TO A VOLTAGE SUPPLY.

104

GENERATE A SIGNAL THAT INDICATES A STATE OF REDUCED WORK CAPABILITY IN AN IC THAT IS BEING POWERED BY THE VOLTAGE SUPPLY.

108

APPLY THE SIGNAL TO INCREASE THE POWER EFFICIENCY OF THE VOLTAGE SUPPLY, WHILE THE SUPPLY IS POWERING THE IC IN THE REDUCED WORK CAPABILITY STATE.

112

FIG. 1

APPLY POWER TO A VOLTAGE REGULATOR. 204

GENERATE A DIGITAL SIGNAL THAT INDICATES A STATE OF REDUCED WORK CAPABILITY IN AN IC THAT IS BEING POWERED BY THE VOLTAGE REGULATOR.

108

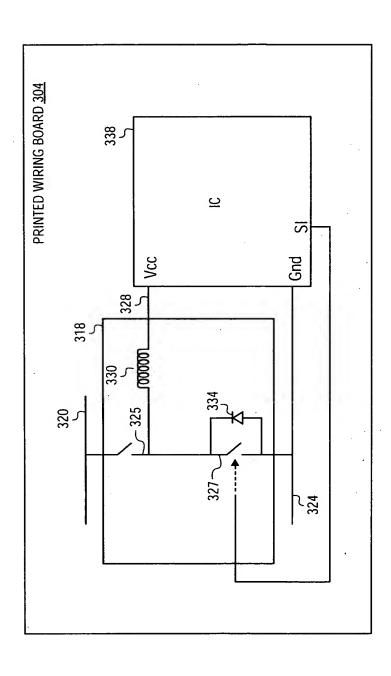
USE THE DIGITAL SIGNAL TO REDUCE LEAKAGE CURRENT AND/OR TRANSISTOR SWITCHING LOSS IN THE REGULATOR, WHILE THE REGULATOR IS POWERING THE IC IN THE REDUCED WORK CAPABILITY STATE.

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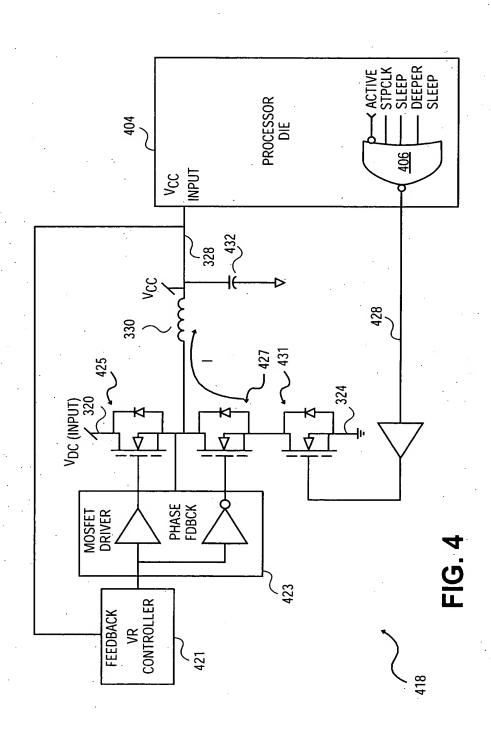
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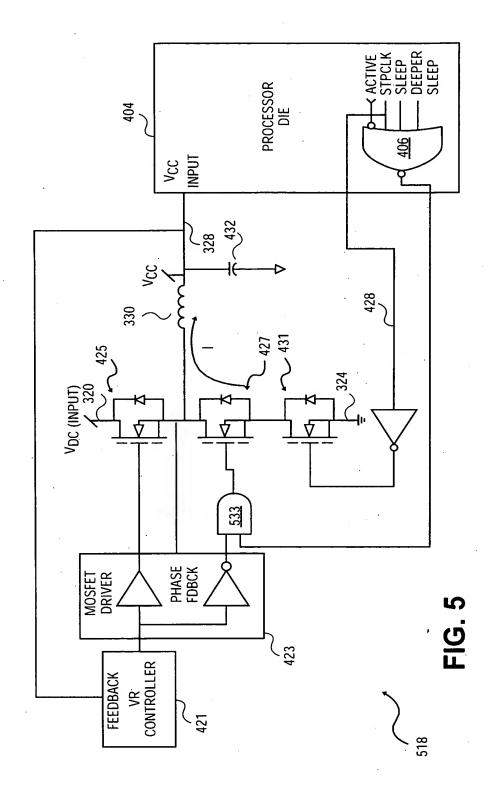
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